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- 46. The method of claim 45 wherein said animal cell is a mammalian cell.
- 47. The method of claim 45 wherein said pacteria is Shigella.
- 48. The method of claim 47 wherein said Shigella is S. flexneri.
- 49. The method of claim 48 wherein said S. flexneri is 15D.
- 50. The method of claim 47 wherein said cell is a cell of mucosal epithelium.
- 51. The method of claim 50 wherein said epithelium is intestinal mucosal epithelium.
- 52. The method of claim 47 wherein said Shigella is further inactivated.
- 53. A method for delivering DNA capable of being expressed in a mucosal epithelium cell, said method comprising:
 - (i) introducing said DNA into a mutated strain of Shigella which is unable to synthesize active aspartate β -semialdehyde dehydrogenase of the DAP pathway; and (ii) administering the Shigella of (i) to a mucosal epithelium cell such that the Shigella, after uptake by said cell, will lyse, thereby delivering to the cell the DNA capable of being expressed therein.
- 54. The method of claim 53, wherein said mucosal epithelium is an intestinal mucosal epithelium cell.